01/18/2018 504736118

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4782844

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID HELD	12/21/2016
JESSE LEVINSON	06/08/2017
SEBASTIAN THRUN	06/01/2017
SILVIO SAVARESE	06/08/2017

RECEIVING PARTY DATA

Name:	THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY
Street Address:	OFFICE OF GENERAL COUNSEL BUILDING 170, 3RD FLOOR, MAIN QUAD
Internal Address:	P.O. BOX 20386
City:	STANFORD
State/Country:	CALIFORNIA
Postal Code:	94305-2038

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15652013

CORRESPONDENCE DATA

Fax Number: (949)852-0004

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

9498520000 Phone: Email: pair@kppb.com **Correspondent Name: KPPB LLP**

2190 S. TOWNE CENTRE PLACE Address Line 1:

Address Line 2: SUITE 300

Address Line 4: ANAHEIM, CALIFORNIA 92806

ATTORNEY DOCKET NUMBER:	S31-03961.CON	
NAME OF SUBMITTER:	CHRISTINA DUCKSWORTH	
SIGNATURE:	/ Christina Ducksworth /	
DATE SIGNED:	01/18/2018	

PATENT REEL: 044660 FRAME: 0429 504736118

Total Attachments: 5 source=03961con_assgn#page1.tif source=03961con_assgn#page2.tif source=03961con_assgn#page3.tif source=03961con_assgn#page4.tif source=03961con_assgn#page5.tif

PATENT REEL: 044660 FRAME: 0430

RECORDATION FORM COVER SHEET PATENTS ONLY		
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.		
Name of conveying party(ies) David Held, Jesse Levinson, Sebastian Thrun, Silvio Savarese	2. Name and address of receiving party(ies) The Board of Trustees of the Leland Stanford Junior University Name: Internal Address: P.O. Box 20386	
Additional name(s) of conveying party(ies) attached? Yes No. 3. Nature of conveyance/Execution Date(s): Execution Date(s) 12/21/16, 06/08/17, 06/01/17, 06/08/17 X Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): This A. Patent Application No.(s) 15/652,013	Street Address: Office of General Counsel Building 170 3rd Floor, Main Quad City: Stanford State: CA Country: US Zip: 94305-2038 Additional name(s) & address(es) attached? Yes No document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)	
Additional numbers at	ached? Yes No	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: KPPB LLP		
Internal Address: Suite 300 Street Address: 2190 S. Towne Centre Place	7. Total fee (37 CFR 1.21(h) & 3.41) \$ Authorized to be charged to deposit account Enclosed	
	None required (government interest not affecting title)	
City: Anaheim	8. Payment Information	
State: CA Zip: 92806		
Phone Number: 949.852.0000 Docket Number: S31-03961.CON	Deposit Account Number <u>50-4407</u>	
Email Address: pair@kppb.com	Authorized User Name	
9. Signature: / Samuel P. Richey /	2018-01-18	
Signature	Date	
• =	Total number of pages including cover sheet, attachments, and documents: 5 t) should be faxed to (571) 273-0140, or mailed to:	
Mail Stop Assignment Recordation Services, Director o	f the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450	

PATENT REEL: 044660 FRAME: 0431

ASSESSMENT OF APPLICATION

THIS AND IN SAME TO Be Dural Held residing to Supplied California, U.S.A., Pesse Levinson residing to Supplied California, U.S.A., Sebastian Thress residing as Starford, California, U.S.A., and Silvin Suvariose residing to Starford, California, U.S.A., becomes received to get the ASSIGNORS)

WHEREAS and ASSIGNORS are instructively in the and perfect improvement in

"Robert Andrew Pracking Combining ID Shops, Color, and Marina wak America Dynamic Heingrams"

that hims 8, 2015 as Application No. 14 73,0902 and having the attent matrical persons as inventors, attorney docker whereast \$31,77941

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NOW THIS PORT OF SAME AND CONSIDERATIONS, AND ASSIGNORS will people, menter to the ASSIGNOR. As account to the ASSIGNOR and the Assignor of th

ASD to the same consideration the same ASSIGNORS hereby coverage and agree to and with said ASSIGNEE, in successive and approximative and assigns that, at the time of excession and delivery of these presents, and ASSIGNORS are the basic of excession of the content of the cont

ASSIGNATION OF THE PROPERTY OF

AND the said ASSIGNORS receive expects the Commissioner of Patent to be useful Latent Patent of the United States to said ASSIGNEE as the ASSIGNEE of said investigation and the Latent Patent to be issued thereon for the useful transit of and ASSIGNEE in a constant legal representative and only in

(2/2)//		and the second	week	
3882 L	Name of Inventor	avid Held	or Concept Co	
Date	Name of Inventor			
	li di	sse Levinson		
No.	Name of Inventor			
		ebastian Thrus		
Ose	Name of Inventor			
		likio Savarose		

ASSIGNMENT OF APPLICATION

THIS ASSIGNMENT, by **David Held** residing in Stanford, California, U.S.A., **Jesse Levinson** residing in Stanford, California, U.S.A., **Sebastian Thrun** residing in Stanford, California, U.S.A., and **Silvio Savarese** residing in Stanford, California, U.S.A. (hereinafter referred to as the **ASSIGNORS**):

WHEREAS, said ASSIGNORS have invented certain new and useful improvements in:

"Robust Anytime Tracking Combining 3D Shape, Color, and Motion with Annealed Dynamic Histograms"

filed June 8, 2015 as Application No. 14/733,902 and listing the above named persons as inventors, attorney docket reference S31-03961.

WHEREAS. The Board of Trustees of the Leland Stanford Junior University, a non-profit organization duly organized under and pursuant to the laws of California, and having its principal place of business at Office of the General Counsel Building 170, 3rd Floor, Main Quad P.O. Box 20386, Stanford, CA 94305-2038, (hereinafter referred to as the ASSIGNEE) is desirous of acquiring the entire right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefore and thereon:

NOW THEREFORE, for good and valuable considerations, said ASSIGNORS sell, assign, transfer to the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefore and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said ASSIGNEE, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the ASSIGNORS, had this sale and assignment not been made.

AND for the same consideration, the said ASSIGNORS hereby covenant and agree to and with said ASSIGNEE, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said ASSIGNORS are the lawful owners of the entire right, title and interest in and to said invention and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said ASSIGNORS have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, the said ASSIGNES hereby covenant and agree to and with said ASSIGNEE, its successors, legal representatives and assigns, that said ASSIGNORS will, whenever counsel of said ASSIGNEE, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said ASSIGNEE, its successors, legal representatives and assigns, but at the cost and expense of said ASSIGNEE, its successors, legal representatives and assigns.

AND the said ASSIGNORS hereby requests the Commissioner of Patents to issue said Letters Patent of the United States to said ASSIGNEE as the ASSIGNEE of said invention and the Letters Patent to be issued thereon for the use and behalf of said ASSIGNEE, its successors, legal representatives and assigns.

Date	June 2, 2017	Name of Inventor	Donal Weld
Date	June 8, 2017	Name of Inventor	David Held Jesse Levinson
Date		Name of Inventor	
Date_		Name of Inventor	Silvio Savarese

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ASSIGNMENT OF APPLICATION

THIS ASSIGNMENT, by David Meld residing in Stanford, California, U.S.A., Fesse Levinson residing in Stanford, California, U.S.A., and Silvio Savarese residing in Stanford, California, U.S.A., and Silvio Savarese residing in Stanford, California, U.S.A. (hereinafter referred to as the ASSIGNORS):

WHEREAS, said ASSIGNORS have invented certain new and usoful improvements in:

"Robust Anglime Tracking Combining 3D Shape, Color, and Motion with Annealed Dynamic Histograms"

Sled June 8, 2015 as Application No. 14/733,992 and listing the above named persons as inventors, attorney docket reference S31-03961.

WHEREAS, The Board of Trustees of the Leland Stanford Junter University, a non-profit organization duly organized under and pursuant to the laws of California, and baving its principal place of business at Office of the General Counsel Building 170, 3rd Floor, Main Quad P.O. Box 20386, Stanford, CA 94305-2038, (hereinafter referred to as the ASSIGNEE) is desirous of acquiring the entire right, title and interest in and to said invention and said application for Letters Petent of the United States, and in and to any Letters Patent or Petents, United States or foreign, to be obtained therefore and thereon:

NOW THEREFORE, for good and valuable considerations, said ASSIGNORS sell, assign, transfer to the ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefore and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said ASSIGNEE, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term of terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the ASSIGNORS, had this sale and assignment not been made.

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AND the said ASSIGNORS hereby requests the Commissioner of Patents to issue said Letters Patent of the United States to said ASSIGNEE as the ASSIGNEE of said invention and the Latters Patent to be issued thereon for the use and behalf of said ASSIGNEE, its successors, legal representatives and assigns.

Children	Name of Inventor	David Held
Date	Name of Inventor	
Data <u>(4/1/2017)</u>	Name of Inventor	Sesse Cavinson
Chatte	Name of Inventor	Sibrio Savarose

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ASSIGNMENT OF APPLICATION

THIS ASSIGNMENT, by David Held residing in Stanford, California, U.S.A., Jesse Levinson residing in Stanford, California, U.S.A., Sebastian Thrun residing in Stanford, California, U.S.A., and Silvin Savarese residing in Stanford, California, U.S.A. (hereinafter referred to as the ASSIGNORS):

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AND the said ASSIGNORS hereby requests the Commissioner of Patents to issue said Letters Patent of the United States to said ASSIGNEE as the ASSIGNEE of said invention and the Letters Patent to be issued thereon for the use and behalf of said ASSIGNEE, its successors, legal representatives and assigns.

Date	Name of Inventor	David Heid
Date	Name of Inventor	Jesse Levinson
Oute	Name of Inventor	
Date 6/8/17	Name of Inventor	Sebastian Donn Silvio Savarese

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